

REMARKS

Claims 1-16 are presented. Claims 7-16 are allowed. Of the rejected claims, only claim 1 is independent.

Claims 1-6 are finally rejected under 35 U.S.C. §103 (a) as being unpatentable over the Counselman reference, of record. The Examiner details in sections 8-13 on pages 2-4 of the Office Action the reasons in support of the rejection.

The rejection is respectfully traversed. The rejected claims as amended are directed to an apparatus for tracking remotely generated signals. The apparatus comprises a first tracker for tracking a first component of a first remotely generated signal. The apparatus further includes a W-code signal generator responsive to a second component of the first signal for locally generating a first W-code signal from a second component of the first signal. A second tracker is provided for tracking a first component of a second remotely generated signal according to the first W-code signal. The second component of the first signal has the same pattern as the first component of the second signal.

The invention as defined by the claims as amended is neither disclosed nor suggested by the Counselman reference. There is in fact little connection between the signals disclosed by Counselman and the allegedly equivalent signals generated by apparatus constructed in accordance with the present invention. The Office Action suggests on page 3 that it would be obvious to replace the Counselman C/A code signal with the W-code signal of the present invention. However, the reason for the suggested modification of Counselman's teaching is not understood. The Counselman C/A code signal is locally generated, whereas the W-code signal of the present invention is unknown locally and can only be developed from the incoming remotely generated signal (transmitted, for example, by an earth-orbiting satellite).

Hence, even if the Counselman C/A code were replaced with the W-code of the present invention, as suggested in the Office Action, the Counselman apparatus would not function in accordance with the apparatus of the present invention. This is evident from the fact that the Counselman C/A code is generated locally, as indicated above, and then correlated with the L1 incoming satellite signal. The W-code estimate made in accordance with the present invention is derived from a remotely generated signal (for example, an incoming L1 satellite signal).

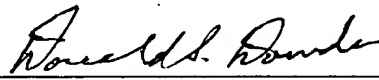
The advantage of the claimed structure is evident: A local code generator required in accordance with Counselman's teaching is rendered superfluous, yet a signal derived by apparatus constructed in accordance with the present invention can be correlated with another W-code estimate derived from the incoming L2 satellite signal to facilitate acquisition and tracking.

Since the signal substitution as proposed in the Office Action is not suggested by Counselman and is indeed pointless and unworkable, it offers no support for the rejection of claims 1-6.

Accordingly, it is respectfully requested that the Examiner enter this amendment, withdraw the final rejection, and issue a Notice of Allowance.

If a telephone interview would expedite the prosecution of the application, the Examiner is requested to call undersigned counsel.

Respectfully submitted,
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VERSION WITH MARKINGS TO SHOW THE CHANGES MADE

IN THE CLAIMS

Claim 1 is amended as follows:

1. (Amended) An apparatus for tracking remotely generated signals comprising:
a first tracker for tracking a first component of a first remotely generated signal and
including a W-code signal generator responsive to a second component of the first signal for
locally generating a first W-code signal from a second component of the first signal; and
a second tracker for tracking a first component of a second remotely generated signal
according to the first W-code signal; [and] wherein
the second component of the first signal has the same pattern as the first component of
the second signal.